

Course Unit Descriptor

Study Programme: Biotechnology		
Course Unit Title: Occupational Safety		
Course Unit Code: M2BI1		
Name of Lecturer(s): Associate Professor Bojana Bajić, Associate Professor Damjan Vučurović		
Type and Level of Studies: Master Academic Degree		
Course Status (compulsory/elective): Elective		
Semester (winter/summer): Summer		
Language of instruction: English		
Mode of course unit delivery (face-to-face/distance learning): face-to-face		
Number of ECTS Allocated: 7		
Prerequisites: None		
Course Aims: Acquiring scientific and academic abilities and skills in the field of occupational safety and knowledge of international and national regulations for the regulation of occupational safety systems, sources of hazards at workplaces, occupational safety measures, risk assessment at workplaces, principles of hazard identification and application of preventive and special measures to prevent occupational accidents in technological processes.		
Learning Outcomes: Theoretical and practical skills for identification of hazards at workplaces, application of occupational safety measures, analysis and prediction of solutions for occupational safety, occupational safety supervision, knowledge and application of international and national regulations in the field of occupational safety, risk assessment at workplaces, organizing the implementation of occupational safety measures in technological processes, solving problems in the area of occupational safety systems, implementing control of occupational safety measures.		
Syllabus: <i>Theory</i> Introduction. Multidisciplinary aspects of occupational safety. Occupational safety system. International regulation of occupational safety. National regulations for regulating occupational safety and health. Sources of danger and harm and protective measures. Hazardous substances in technological processes. Preventive safety measures at work. Preventive safety measures at work in technological processes. Risk assessment in the workplace. Occupational safety in certain economic activities. <i>Practice</i> Introduction to the form and content of occupational safety documents. Analysis of examples of application of regulations in the field of occupational safety. Study of regulations and specific examples from general and special measures of occupational safety in various technological processes. Analysis of examples of sources of hazards at workplaces, preventive measures, risk assessment at the workplace. Analysis of risk assessment in selected technological processes.		
Required Reading: Phil Hughes, Ed Ferrett: Introduction to Health and Safety at Work. Sixth Edition. Routledge, London, 2016. David Goetsch: Occupational Safety and Health. Ninth Edition. Pearson, NY, 2019.		
Weekly Contact Hours:	Lectures: 3	Practical work: 3
Teaching Methods:		

Interactive lectures using video presentations, seminar papers and consultations.

Knowledge Assessment (maximum of 100 points):

Pre-exam obligations	points	Final exam	points
Active class participation		written exam	
Practical work	40	oral exam	60
Preliminary exam(s)			
Seminar(s)			

The methods of knowledge assessment may differ; the table presents only some of the options: written exam, oral exam, project presentation, seminars, etc.